

Nursing Fire Damaged Trees

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The fact that avocados can be grown in hard-to-get places means that the trees are also in areas that are subject to wildfire damage. Recently, several hundred acres of avocados burned in the Fillmore/Santa Paula foothills. The fire was fanned by high winds and low humidity. In spite of being five weeks away from the June 1 weed abatement date, the green hills burned with fury.

Every year, there are avocado trees that bum, either through careless inattention to early morning fires that pickers build, wildfires or car accidents. A grower needs to be patient and observant to bring the trees back into production.

Although injury to foliage and young growth is visible within a few days of the fire, the full extent of the damage may not be known for several months or possibly the next growing season. In the case of severe injury, dieback may continue to occur for several months after the fire. New growth that occurs after the fire may suddenly collapse the following year when the growth is tested by Santa Ana conditions.

The important rules to follow after a fire is to do nothing — don't prune, don't water, don't fertilize. The avocado has a tremendous ability to come back from fire and frost damage. However, the tree will tell you where it is coming back. It will start pushing growth where the tree is still healthy. It may take three to six months for this growth to occur.

Delay pruning until the tree clearly shows where it is going to regrow. By waiting, you save the expense of having to return sometime later to remove more wood and you also will be able to save the maximum amount of tree.

In the meantime, if the tree has been defoliated by the fire, it has lost the ability to transpire water. Watering a tree with no leaves will set up conditions conducive to root rot. Until the tree begins to leaf out, the emitters should be capped or plugged. Then as the tree puts on new growth, shallow infrequent irrigations should start. This may mean replacing the 10 gph microsprinkler with a 1 gph dripper if only a portion of the orchard has been burned and the rest of the trees need their usual amount and frequency of water.

One activity the grower can perform is whitewashing. The defoliated tree can be further damaged by sunburn after it has lost its protective cover of leaves. The upper surface of horizontal limbs and the south sides of exposed trunks are the most affected. The whitewash can delay the appearance of new growth, but it does not affect total growth. There is usually no value in applying the whitewash to small limbs.

There are various commercial whitewashes on the market or one can be prepared by

mixing 50 pounds of hydrated lime with 100 gallons of water. The easiest to prepare is made with the cheapest latex paint on the market mixed with enough water that the mixture can be run through a sprayer.

Avocado trees have a great ability to recover after fire damage. Even trees killed below the bud union will frequently develop into good trees if they are rebudded and given good care. Trees which do not put out vigorous sprouts should be removed. Interplanting avocados would rarely be advisable because of their rapid recovery. Think of fire as an advanced pruning plan.